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TITLE: WAVELET ENCODING SYSTEM AND DEVICE

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ABSTRACT:

PROBLEM TO BE SOLVED: To suppress deterioration of data to be decoded without lowering compressibility by performing scalar quantization with the number of steps changed according to a band and compressing the data in plural bands on a frequency axis.

SOLUTION: The blocking circuit 1 of a wavelet encoding device blocks input image data into pixels of 16×16 elements, and a QMF 2 converts the image data into data on a frequency axis from the data on a time base in each block. Then a square sum calculation circuit 4 calculates the weighted square sum of each of data included in a band where vector quantization is performed. A compressing circuit 5 compresses the data on the frequency axis corresponding

to each band. A vector quantization control circuit 6 controls vector quantization carried out by the circuit 5 based on the above weight end square sum and on the block activity that is calculated by a block activity calculation circuit 3. Then a Huffman encoding circuit 7 performs Huffman encoding of a data row which is obtained with compression.

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